



EJ211X Examensarbete inom effektelektronik, avancerad nivå 30,0 hp

Degree Project in Power Electronics, Second Cycle

När kurs inte längre ges har student möjlighet att examineras under ytterligare två läsår.

Fastställande

Kursplan för EJ211X gäller från och med HT08

Betygsskala

A, B, C, D, E, FX, F

Utbildningsnivå

Avancerad nivå

Huvudområden

Elektroteknik

Särskild behörighet

Program requirements, and completion of EJ2300. Depending on the project, it can also be required to have completed some other elective courses.

Undervisningsspråk

Undervisningsspråk anges i kurstillfällesinformationen i kurs- och programkatalogen.

Lärandemål

The aim of the course is to develop the student's ability to independently carry out and report a work effort within the area of Power Electronics.

Upon completion of this course, the student shall be able to:

- apply relevant knowledge and skills, within the area, to a given problem
- within given constraints, even with limited information, independently analyze and discuss complex inquiries/problems and handle larger problems on the advanced level within the area
- reflect on, evaluate, and critically assess one's own and others' scientific results
- document and present one's work with strict requirements on structure, format, and language usage
- identify one's need for further knowledge and continuously develop one's own knowledge.

Kursinnehåll

The degree project shall consider a relevant problem within the area of Power Electronics. The focus of the work should be on investigation (theoretical and/or practical) and analysis. The extent of the work should be that it requires at least five qualified work months. The work effort includes the development of a detailed project plan, to seek and study literature that is directly relevant for the thesis work and to conduct the proposed investigation and analysis. The results are presented in a written report and orally at one of the seminars for master theses provided by the department. If the work is done at a company, it can also be required to present the work orally there as well. During the thesis work period, an opposition should be conducted on another student's thesis work.

Kursupplägg

The course language is English.

Kurslitteratur

The course literature is selected in cooperation with the supervisor(s).

Examination

- XUPP - Examensuppgift, 30,0 hp, betygsskala: A, B, C, D, E, FX, F

Examinator beslutar, baserat på rekommendation från KTH:s handläggare av stöd till studenter med funktionsnedsättning, om eventuell anpassad examination för studenter med dokumenterad, varaktig funktionsnedsättning.

Examinator får medge annan examinationsform vid omexamination av enstaka studenter.

The examination is based on the three criteria - process, contents, and presentation - defined by KTH, and presented in the course description. A student that has not finished the thesis work within eight months, can be failed on the course. The decision is taken in consultation between the examiner and the supervisor(s).

Övriga krav för slutbetyg

In order to pass the degree project, all three criteria must be met with a grade of sufficient or better. The final grade is a synthesis of the three evaluation areas. It is determined by the examiner in coordination with the supervisor(s).

Etiskt förhållningssätt

- Vid grupparbete har alla i gruppen ansvar för gruppens arbete.
- Vid examination ska varje student ärligt redovisa hjälp som erhållits och källor som använts.
- Vid muntlig examination ska varje student kunna redogöra för hela uppgiften och hela lösningen.